



Department  
for International  
Development

# The LCEDN and the UK Energy and Development Research Scene

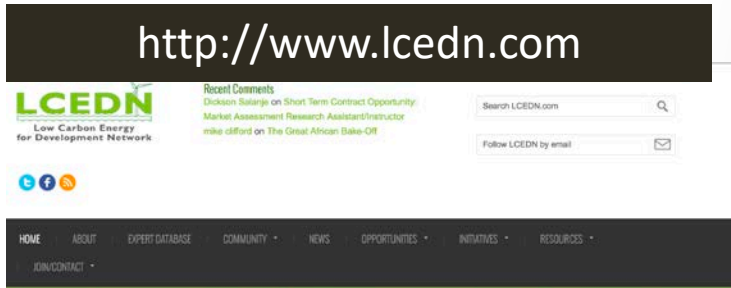
Ed Brown  
LCEDN and Loughborough University



# Tackling the Challenges



- **UK Low Carbon Energy for Development Network (LCEDN)**
- Community building (UK Energy and development research).
- Multi-disciplinary.
- Multi-sectoral.
- Information portal.
- Catalysing International Collaborations.



# Activity

1. Established a **searchable directory of UK research expertise** (around 300 individuals now listed)
1. Developed the **LCEDN website** (<http://www.lcedn.com>) as an innovative web space for the development of this research community – Relaunched recently

# Blog

We share information and advice on policy, research and global trends

Sign up to our email newsletter >

## Category

[Five Quick Questions series](#)  
[Research](#)

## Archive

[Mar 2018](#)  
[Feb 2018](#)  
[Jan 2018](#)  
[Dec 2017](#)  
[Nov 2017](#)  
[Aug 2017](#)  
[Jul 2017](#)



## Solar Home Systems, the Internet of Things and life in Rwanda. - A brief conversation with Iwona Bisaga, University College London

📅 19 March 2018 by Dr Britta Turner

*Here, we continue this series of 'Five Quick Questions' blog posts, where we share some of our conversations with researchers and practitioners who are specialising in issues related to Low Carbon Energy and International Development, and introduce the people we meet and the issues they are concerned with or curious about. If you are doing some interesting new research or if you would like to recommend someone you think we should ask Five Questions to, please contact us. ...*

[Read more >](#) [0 Comments](#)



## Can decentralised energy governance shape socio-economic and behavioural outcomes of off-grid electricity interventions? Musings from Balaka

📅 5 March 2018

# Activity

3. ‘**State of the field**’ reviews of the existing evidence base + current UK energy/development research.  
*Data Visualization Section of the website*
4. ‘**Rapid evidence reviews**’ of specific technologies, particular regions or emerging themes where there is a current policy and research need.
5. Stimulation of new **postgraduate/training programmes** and involvement of the postgraduate community



# Activity

6. Running **workshops, conferences and seminars** to drive the network's development and facilitate real interaction with researchers and other actors from across the globe.

Next Conference: May 30&31<sup>st</sup>, June 1<sup>st</sup>  
*Transforming Energy Access*  
Loughborough University, UK



**SMART  
VILLAGES**

**USES Network**



*Webinar - Off the beaten path: Rural energy & remoteness*

Join [The Low Carbon Energy for Development Network](#) and [Smart Villages](#) on

Wednesday, 9 March 2016 at 9:00 AM GMT.

To register, click here:

<https://attendee.gotowebinar.com/register/8735575175504423428>

Series of Monthly Webinars:

Topics so Far: Remoteness, Learning from Failure, Delivery Models, Cooling.

Local Energy Governance. **Wednesday Afternoon – live from PAUWES**

# 8. Research Coordination

## Understanding Sustainable Energy Solutions Programme (EPSRC/DFID/DECC)

- 13 projects.
- Multi-country.
- Multi-sectoral.
- Multi-disciplinary.
- Capacity building etc.



**EPSRC**

Engineering and Physical Sciences  
Research Council



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Individual

## Countries Involved in the Projects:

UK, CANADA, US.

KENYA, MALAWI, UGANDA, SIERRA LEONE,  
SOUTH AFRICA, ZAMBIA, ETHIOPIA, GHANA,  
LESOTHO, RWANDA, TANZANIA.

THAILAND, PHILIPPINES, INDIA, BANGLADESH  
LAOSA, VIETNAM, MYANMAR, CAMBODIA,

CHINA

RE4FOOD

Energy Efficient Rural Food Processing Utilising Renewable  
Energy to Improve Rural Livelihoods

ESCU Box

Smart monitoring, billing and control for pro-poor access to  
energy services

LCT

Low Cost Technologies

**Challenges of developing new technologies** – rice straw, cooling for agriculture, smart communication technologies, eCook

**Policy Challenges** – Local Governance (Cities) and Political Decentralization, national policy frameworks (green growth, building regulations etc.)

**Community mobilization** - productive uses, nano-grids.

**Social barriers** – spread of cookstoves.

**Industrial Uses** – Agro-industry, thermal energy services

# Diverse Challenges





**LOW CARBON  
ENERGY FOR DEVELOPMENT  
NETWORK**



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Development

# Partnerships for Skills Development:

An LCEDN Programme of Support for DFID's Transforming  
Energy Access Initiative (Dec 2016 – June 2018)

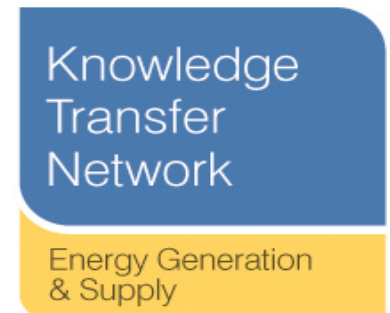
**(a) Championing joined-up thinking in UK energy and development research funding**



**(b) Reviewing the current state of UK Energy and Development Research and**



**(c) Exploring alternative approaches towards ODA energy research and innovation spending in the UK going forward.**



## Work Stream 1(a)

Coordination of UK Energy and Development Research and Innovation

# Current UK Research Portfolio

- LCEDN currently completing a review of UK Research Capacity in this Area.
- Database of over 200 projects, 37 UK institutions, over 450 researchers (UK and Overseas partners)
- Funding: Limited coverage in traditional Research Council Portfolio but substantial growth over recent years (GCRF/DFID).

Consultative draft – not for citation.

## MAPPING THE UK RESEARCH & INNOVATION LANDSCAPE: ENERGY & DEVELOPMENT

A review undertaken by the UK Low Carbon Energy for Development Network, Energy 4 Impact and the Knowledge Transfer Network, with the assistance of IOD-PARC.

11<sup>th</sup> September 2017

Authored by Chris Bagley, Ed Brown, Ben Campbell, Jon Cloke, Scott Cameron, Simon Collings, Rebecca Gunning, Henriette Kabell, Jenni McDonnell, Long Seng To and Britta Turner.

This work was funded by the UK Department for International Development under the project 'Partnerships for Skills Development: An LCEDN Programme of Support for DFID's Transforming Energy Access Initiative'.





## Work Stream 1(b)

LCEDN Community Building Activities.

# Progress:

- (a) Briefing Papers and Publishing Programme,
- (b) Researcher Capacity Building Workshops and Partnering Prizes,
- (c) Short-Term Placement Programme,
- (d) Broadening academic dissemination
- (e) LCEDN Integrative activity (Annual Conferences, community building, website development, dissemination/publishing).





# Progress:

- (a) Publishing,
- (b) Researcher Capacity Building Workshops and Partnering Prizes,
- (c) Short-Term Placement Programme,
- (d) Broadening academic dissemination
- (e) LCEDN Integrative activity (Annual Conferences, community building, website development, dissemination/publishing).



## OFF GRID SOLAR SCORECARD

TRACKING SUSTAINABLE DESIGN IN THE GLOBAL SOLAR INDUSTRY



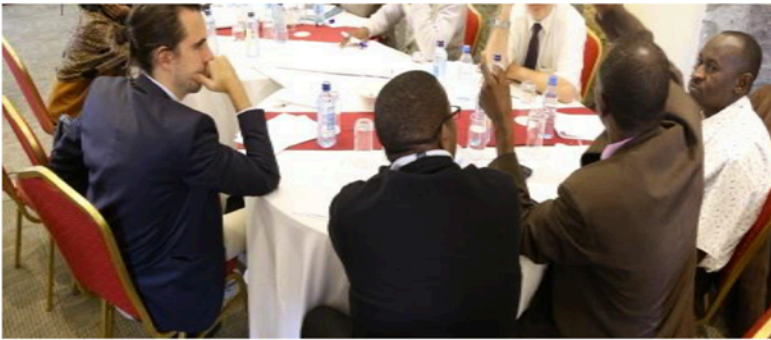
# Progress:

- (a) Publishing,
- (b) Researcher Capacity Building Workshops and Partnering Prizes,
- (c) Short-Term Placement Programme,
- (d) Broadening academic dissemination
- (e) LCEDN Integrative activity (Annual Conferences, community building, website development, dissemination/publishing).

## 3.1 Break out Session 1 – Knowledge and Research Gaps

In this session, participant groups were tasked with answering the following questions:

- Who are these stakeholders/intermediaries, who will reach the “last mile or end-users”?
- What do intermediaries between research and practice really need to know to deliver energy access?
- What knowledge gaps are hindering energy access in the country?
- What role/scope is there for academia? How can academic research add value?



After the session, each group was given an opportunity to present highlights of their discussions in plenary. We have summarized the feedback on each of the questions in the following section of this report



# Progress:

- (a) Publishing,
- (b) Researcher Capacity Building Workshops and Partnering Prizes,
- (c) Short-Term Placement Programme,
- (d) Broadening academic dissemination
- (e) LCEDN Integrative activity (Annual Conferences, community building, website development, dissemination/publishing).





# Low Carbon Energy for Development Network

Bringing together researchers, policy-makers  
and practitioners.

Get involved >

Expanding research capacity around low-carbon energy  
development in the Global South by bringing together  
researchers, practitioners and policy-makers.

# Conference proceedings: LCEDN 6th Conference, 2017

## Category

[Conference proceedings](#) (2)

[Journal articles](#) (17)

[Press](#) (2)

[Reports](#) (11)

[Reviews](#) (2)

[Technical briefs](#) (1)

[Webinars](#) (12)

[Working papers](#) (6)

### LCEDN resource

Presentations of plenary speakers and conference delegates can be accessed below:

#### Plenaries

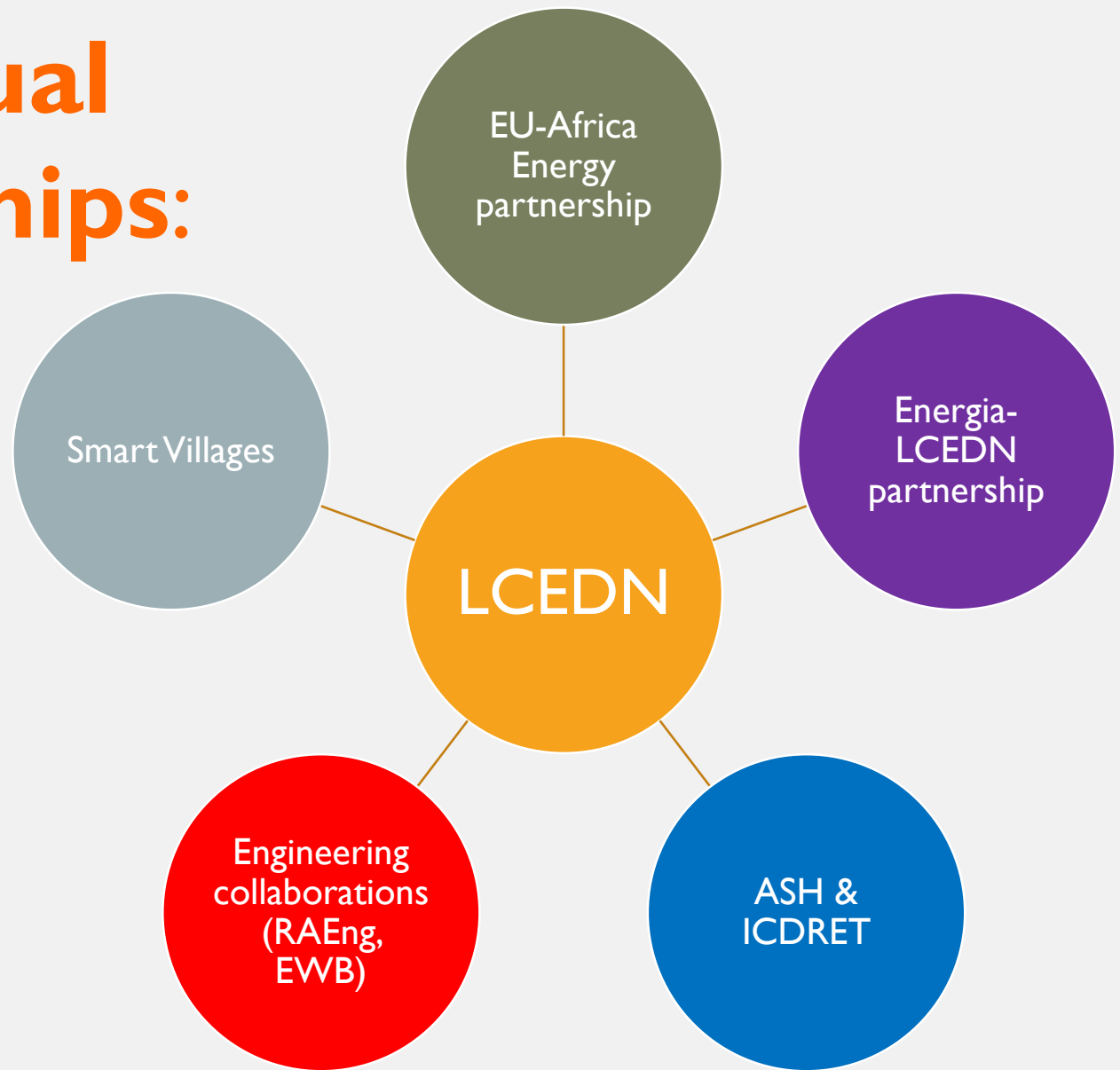
- **Vanessa Castán Broto** (University College London, UK): “Energy sovereignty in Mozambique: making territories, disciplining populations” – view the plenary [here](#)
- **Joy Clancy** (University of Twente, The Netherlands): “Gender equity and energy justice” – view the plenary [here](#)
- **Rosie Day** (University of Birmingham, UK): “Durham and back again: reflections after 8 years of energy equity and justice research” – view the plenary [here](#)
- **Benjamin Sovacool** (University of Sussex, UK): “Conceptual frameworks and analytical strategies for energy justice” – view the plenary [here](#)
- **Simon Trace** (Oxford Policy Management, former CEO at Practical Action): “Energy – achieving technology justice” – view the plenary [here](#)
- **David Woolnough** (Department for International Development (DFID), UK): “Equity and energy justice at DFID” – view the plenary [here](#)



#### 'Communities, Households and Local Energy Governance' session

- **Nadeem Chowdhury** (United International University, Bangladesh): “Challenges and successes of energy governance in off-grid rural communities in Bangladesh” – view the presentation [here](#)

# 5 Individual Partnerships:



**WORK STREAM TWO**





euei pdf Service Lines Activity Database

## Second Africa-EU Renewable Energy Research & Innovation Symposium (RERIS) 2018



**RECP**  
Africa-EU Renewable Energy Cooperation Programme

Africa-EU Renewable Energy Cooperation Programme (RECP)

[Read more >](#)

Location



© Dirk Steuenwald



# Work Stream 2(a)

Africa-EU Renewable Energy Cooperation Programme (RECP) collaboration .

- USES-Energia Researcher Workshops,
- Mainstreaming gender in TEA and other energy research programmes;
- 3 Joint dissemination workshops; (GENIE Community of Practice)
- Briefing Paper
- Webinar collaborations



## Work Stream 2(b)

Mainstreaming Gender  
within Energy Research .

**ENERGIA**  
INTERNATIONAL NETWORK ON  
GENDER AND SUSTAINABLE ENERGY



HOME COMMITTEE CFP PAPER SUBMISSION PROGRAM REGISTRATION VISA VENUE

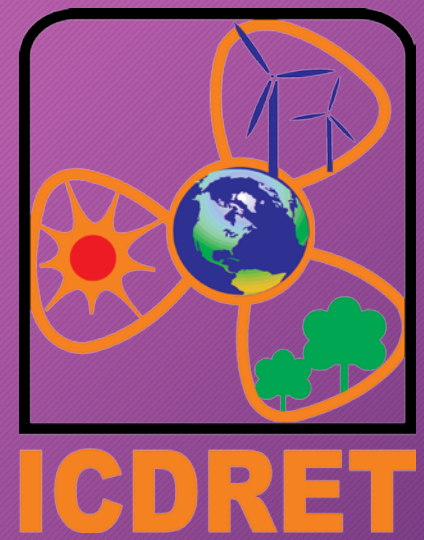


5th International Conference on the Developments in Renewable Energy Technology (ICDRET 2018)  
January 07-09, 2018  
INAUGURATION CEREMONY

# The 5th International Conference on Developments in Renewable Energy Technology (ICDRET'18)

MARCH 29-31, 2018, NEPAL

ICDRET conference series bring together academicians, researchers, engineers and industry experts involved in multiple disciplines of Renewable Energy Technologies.



DAILY NATION 12 DECEMBER 2017

## Kenya: Govt Pushes for Renewable Energy in Counties to Curb Indoor Pollution

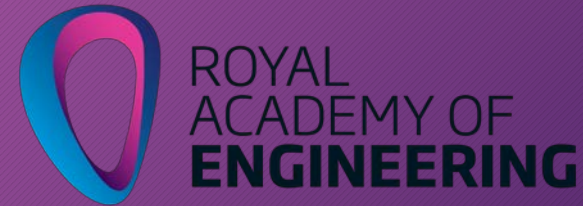
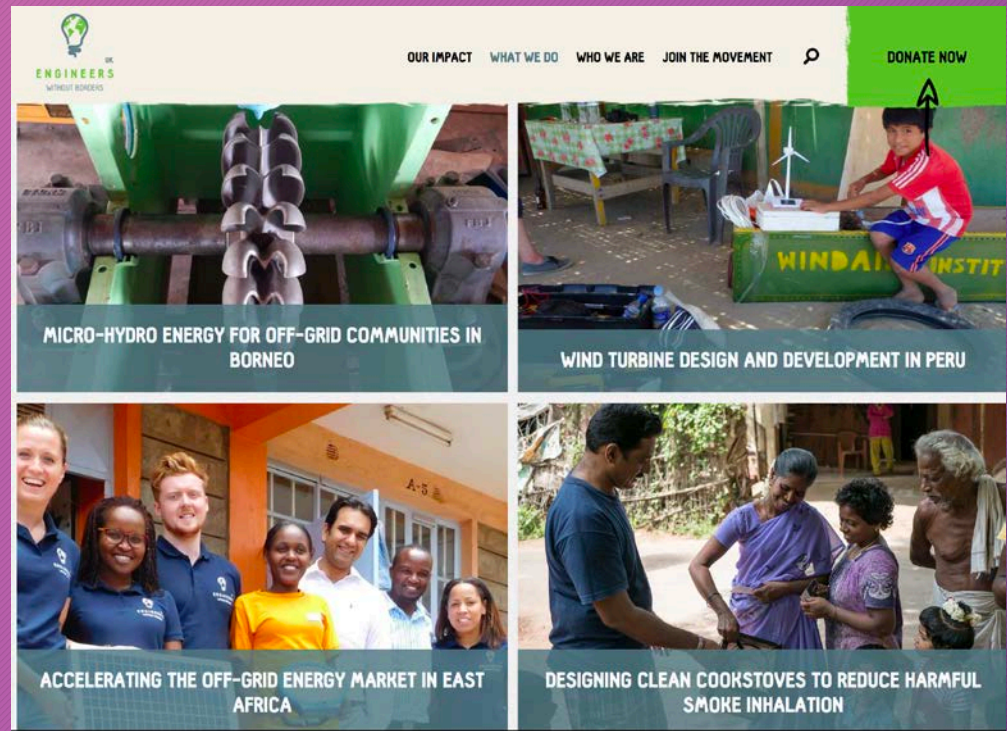


# Work Stream 2(c)

Strategic Networking (Africa Sustainability Hub and ICDRET)

# Objectives:

- (a) Co-Delivery of two RAE Frontiers of Engineering Events,
- (b) Contribution towards design/delivery of other RAE capacity-building activities,
- (c) Co-Production with RAE/EWB of a report on Engineering energy sector capacity-building initiatives,
- (d) Co-production of targeted energy materials for EWB 2017/18 Design Challenge and contribution to delivery of EWB's international placements scheme,
- (e) Embedding learning from EWB energy-specific International Placements.



## Work Stream 2(d)

Royal Academy of Engineering (RAEng) and Engineers Without Borders (EWB) collaboration



**Objectives:** (a) Continued delivery of a programme of monthly webinars, (b) An LCEDN role in the delivery of at least two Smart Villages forward looking workshops, (c) Collaboration in the production of a report on regional comparative capacity-building needs to feed into RPDC scoping activity.



## Work Stream 2(e)

### The Smart Villages Initiative collaboration

A screenshot of the SMART VILLAGES website. At the top, there is a colorful flower logo and the text "SMART VILLAGES New thinking for off-grid communities worldwide". Below this is a navigation menu with links for "OUR WORK", "STORIES", "EVENTS", "PUBLICATIONS", and "COMPETITIONS". The main content area is titled "Webinars" and features a table with two columns: "Location" and "Details". The first row in the table is for a webinar titled "December 2017 Webinar: Closing the Gap - bridging research and practice in energy access", dated 13/12/2017. The second row is for a webinar titled "September 2017 Webinar: Perspectives on energy justice", dated 29/09/2017. The website footer includes the text "binar-closing-the-gap/".

# The Future

- TEA Phase Two (Higher Education Capacity Building in Africa; Energy Partnerships – Crowdfunding; Mini-Grid Innovation etc.)
- Energy Catalyst
- GCRF Hubs
- DFID Rethinking Clean Cooking
- USES Evaluation
- Horizon 2020